

PYRAZOLE DERIVATIVE

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Patent Number: JP5017470
Publication date: 1993-01-26
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Requested Patent: ☐ JP5017470
Application Number: JP19910219805 19910830
Priority Number(s):
IPC Classification: C07D401/04 ; A61K31/44 ; A61K31/505 ; C07D401/14 ; C07D405/14 ; C07D487/04
EC Classification:
EC Classification:
Equivalents: JP2753659B2

Abstract

PURPOSE: To obtain the subject new compounds useful as medicines such as antiphlogistics, anti-rheumatics, antimicrobial agents or antiviral agents.

CONSTITUTION: A compound expressed by formula I [R<1> is pyridyl or (substituted)phenyl; R<2> is pyridyl or NHR<5> (R<5> is H, lower alkyl, formyl, etc.); R<3> is pyridyl; R<4> is H, lower alkanoyl, (phenyl)-lower alkoxycarbonyl; R<3> and R<4> together may form formula II ((n) is 1 or 2) or formula III (R<6> is H or lower alkyl,), e.g. 3-amino-4-(4-fluorophenyl)-5-(2-pyridyl)-pyrazole. The compound expressed by formula I is e.g. obtained by reacting a nitrile derivative expressed by the formula R<1>-CH₂CN with a carboxylic acid ester expressed by the formula R<3a>COOR<7> (R<3a> is pyridyl; R<7> is lower alkyl) in the presence of a base in an inert solvent to afford a compound expressed by formula IV and subjecting the compound expressed by formula IV to cyclic reaction with hydrazine.

